

MSG 121 - RED FD09 MISSION SUMMARY

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2 Good morning Red. Looks like another text book day ahead of you. The SHAB water loop
3 is now perfectly, optimally, optimized so you shouldn't expect anymore knob fiddling and
4 twiddling. This means that the SHAB ambient temperature should not deviate much from
5 the current condition. If the temperature does increase or if you think it is not practical to
6 work in those conditions, we may consider revising the revision process to review the latest
7 rev of the potential plausible exploratory WSA desiccation IFM to reinitiate electromotively
8 induced rotation within the air/water separation device such that you can rerotate, retwiddle,
9 and refiddle with the loop knobs thereby chillin' out.

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11 However, the folks in the FREESTAR POCC are envious of your 80 deg temps. The
12 overnight forecast for Greenbelt is a low of 8 degrees F and a wind chill of -5 deg F. The
13 Hitchhiker Ops Director is threatening to institute nightly Polar Bear runs for the entire
14 POCC! That sure would be timely with your first SOLSE North Polar view today. Good
15 Luck!

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17 On a more official note, concerning BDS-05 Spin Filter Rate Change:
18 Note that the previously uplinked MSG 106 (taped near the BDS-05 locker) should be
19 replaced with the new MSG 126. The new update adds a step to check the Fluid Loop
20 Configuration, which will assure the fluid loop is in the proper mode to reset the spin filter
21 rate. The fluid loop must be in 'Perfuse' mode for the spin filter rate to be changed. The
22 software will not allow for the spin filter rate to be changed if the fluid loop is in 'Autoinfuse'
23 mode. If the fluid loop is in 'Compliance Fill' mode there is too high of a risk of accidentally
24 resetting the pump rate when the spin filter rate is changed.

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28 YOUR CURRENT ORBIT IS: 153 X 141 NM

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30 NOTAMS:

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32 EDWARDS (EDW) – LAKEBEDS RED/STANDING WATER
33 WHITE SANDS (NOR) – GREEN
34 KING KHALID (KKI) – 15R/33L CLOSED
35 NASSAU INTL (YNN) – RWY32 DISP THRESHOLD 3000 FT
36 BEN GUERIR (BEN) – NOT RECOMMENDED
37 BANJUL (BYD) – NOT RECOMMENDED
38 MONROVIA (LRB) - NOT RECOMMENDED
39 TAMANRASSETT (ATT) - NOT RECOMMENDED
40 SOUDA (GSA) – NOT SUPPORTING
41 DYESS (DYS) – NOT USABLE

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43 NEXT 2 PLS OPPORTUNITIES:

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45 EDW22 ORB 130 08/02:28
46 EDW04 ORB 145 09/00:52

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48 OMS TANK FAIL CAPABILITY:

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50 L OMS FAILS: YES (SHALLOW TARGETS)
51 R OMS FAILS: YES (SHALLOW TARGETS)

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LEAKING OMS PRPLT BURN:

L OMS LEAK: BURN OUT-OF-PLANE AN + 86 <= TIG <= AN + 46

R OMS LEAK: BURN OUT-OF-PLANE AN + 4 <= TIG <= AN + 41

OMS QUANTITIES(%)

L OMS OX = 34.1 R OMS OX = 34.2

FU = 33.8 FU = 33.8

SUBTRACT I'CNCT COUNTER FOR CURRENT OMS QUANTITIES

DELTA V AVAILABLE:

OMS 292 FPS

ARCS (TOTAL ABOVE QTY1) 33 FPS

TOTAL IN THE AFT 325 FPS

ARCS (TOTAL ABOVE QTY2) 62 FPS

FRCS (ABOVE QTY 1) 36 FPS

AFT QTY 1 85 %

AFT QTY 2 47 %

<u>SYSTEM</u>	<u>FAILURE</u>	<u>IMPACT</u>	<u>WORK AROUND</u>
P/L	Biopack circuit breaker trips. It is believed that this is caused by a delta pressure sensor that is being affected by blockage of the air filter	Biopack is currently non-operational, and if not recovered, all remaining science will be lost	IFM procedure to restore functionality by removing offending debris screen is in work

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